Feature Engineering

QUESTION 1 OF 3

Which of the following are true statements about feature engineering?

(Select all that apply.)

- [x] Feature engineering manipulates existing features in order to create new features, with the goal of improving model training.
- [x] Feature engineering can be implemented in multiple places, such as at the data source or during model training.
- [ ] Deep learning depends on feature engineering much more than classical machine learning.
- [x] Classical machine learning depends on feature engineering much more than deep learning.

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Examples of Feature Engineering Tasks

QUESTION 2 OF 3

Below are some examples of features you might derive through feature engineering. Can you match the examples with the corresponding type of feature engineering?

Submit to check your answer choices!

EXAMPLE	TYPE OF FEATURE ENGINEERING
Deriving a boolean (0/1 or True/False) value for each entity	Flagging
Getting a count, sum, average, mean, or median from a group of entities	Aggregation
Extracting the month from a date variable	Part-of
Grouping customers by age and then calculating average purchases within each group	Binning

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Summary of Feature Engineering Approaches by Data Type

QUESTION 3 OF 3

Which of the following are potential benefits of feature engineering?

(Select all that apply.)

- [x] Improved model accuracy
- [ ] Faster model training time
- [x] More appropriate features for some algorithms
- [ ] Smaller trained model size

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